

FIG. 1

- 0: NOT OWNED
- 1: OWNED (EXCLUDING 2)
- 2: PURCHASED
- 3: UNNECESSARY (OWNED, EXCLUDING 4)
- 4: UNNECESSARY (PURCHASED)

VIRTUAL BOOKSHELF 11

HOW MANY BOOKS WRITTEN BY
THE AUTHOR ARE OWNED?

BOOK ID CLIENT ID	B1, B2, B3, B4.....
A1	010000...
A2	020000...
A3	
A4	
...

VIRTUAL BOOKSHELF BY BOOK 111

AUTHOR ID CLIENT ID	W1, W2, W3, W4.....
A1	130000...
A2	001040.....
A3	
A4	
...

VIRTUAL BOOKSHELF BY AUTHOR 112

FIG. 3A

FIG. 3B

CLIENT ID × BOOK ID	ENTRY DATE	PUBLIC FLAG	COMMENT OR NOTE
(A1,B2)	20001020	1	THIS BOOK IS ...
(A2,B2)	20001130	0	NOT INTERESTING OBVIOUSLY...
(A2,B4)	20001101	0	PRESENTED BY XX
.....

PERSONAL COMMENT TABLE 113

FIG. 3C

BOOK ID	AUTHOR ID	AUTHOR NAME	TITLE OF BOOK	PUBLISHER NAME	PUBLISHED DATE	ISBN
B2	W1,W2	xxx,yyy	zzzzz	uuuu	1997	4-333...
B4	W3	aaaa	bbbb	jjjj	1998	0-243...
.....						

BOOK MATER 12

FIG. 4

1042501 00E0960

URL	TITLE/SUMMARY	BOOK ID	AUTHOR ID	POPULARITY	COLLECTED DATE
aaa/bbb	ttt	12	2,3	126	20001223
.....					

POPULAR WEB DOCUMENT MASTER 13

FIG. 5

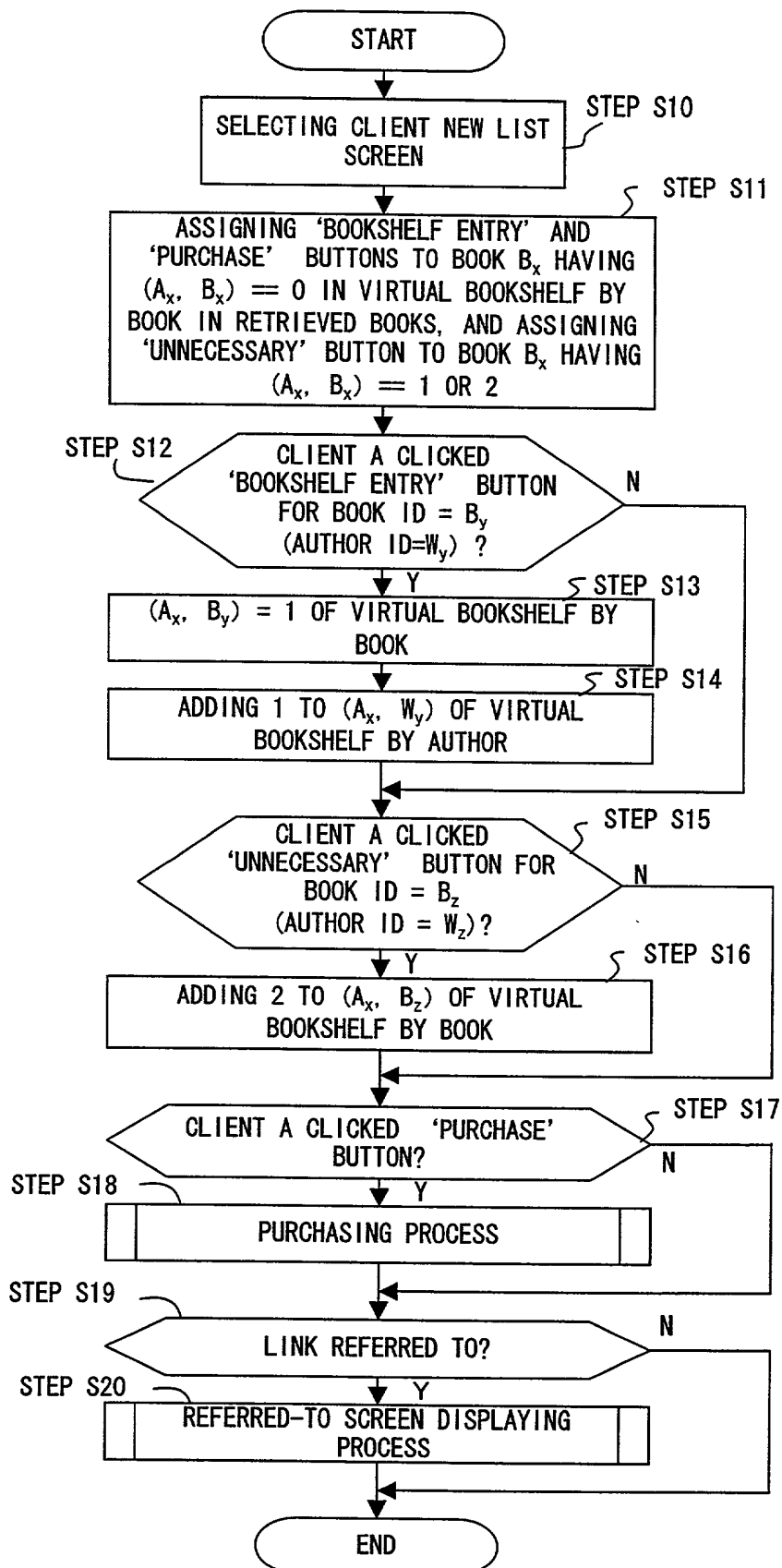


FIG. 6

104250 00E09660

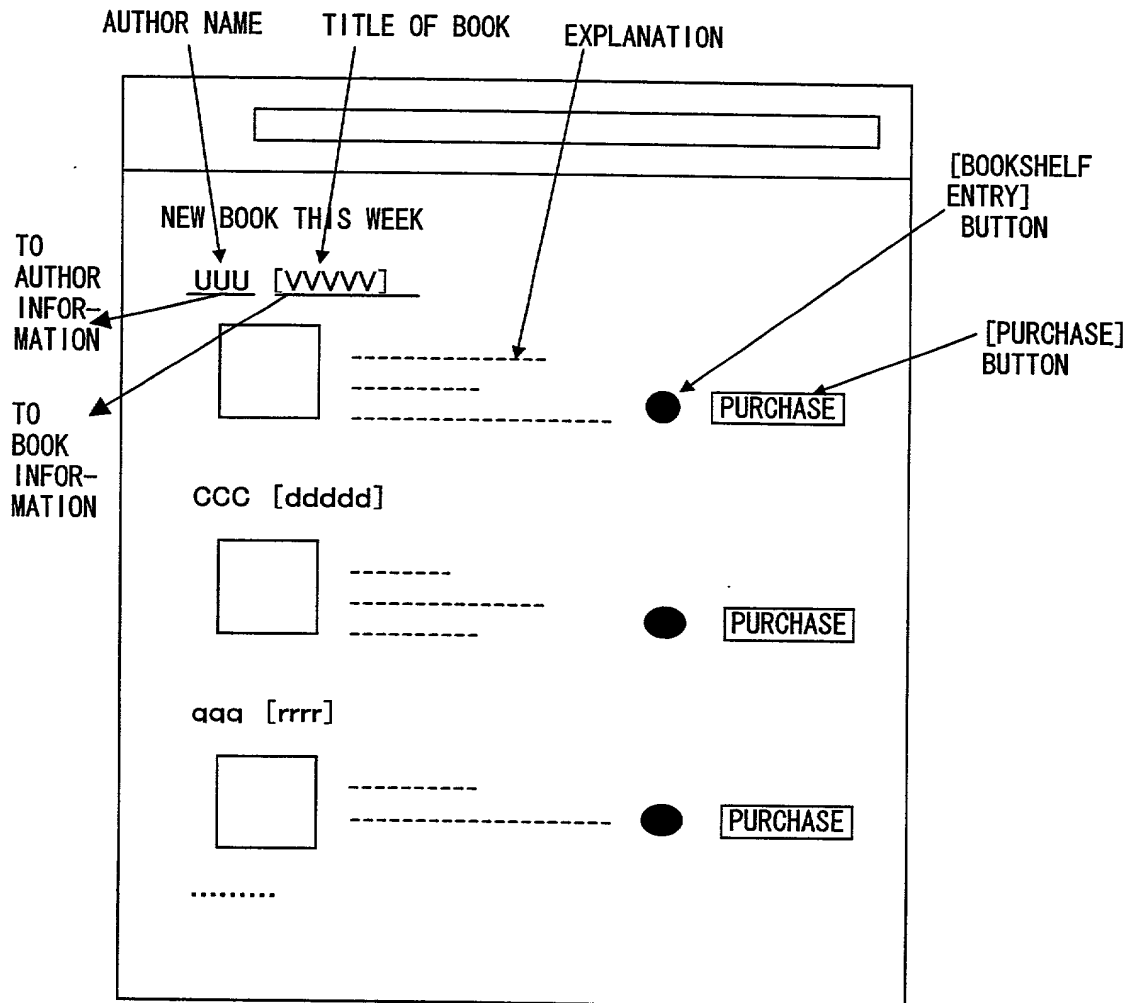


FIG. 7

Figure 1 illustrates a bookshelf entry screen. The screen is divided into a header section and a main content area. The header section contains three labels: "AUTHOR", "TITLE OF BOOK", and "EXPLANATION". Below these labels is a long horizontal input field. The main content area is titled "RETRIEVAL RESULT OF [INTERNET]". It displays a list of book entries. Each entry consists of three parts: a code (e.g., "CCC", "CCC", "aaa", "aaa"), a bracketed code (e.g., "[VVVV]", "[ddddd]", "[rrrr]", "[YXY]"), and a dashed line representing the title/explanation. To the right of each entry is a button. The first three buttons are labeled "PURCHASE" and have a black circle icon to their left. The fourth button is labeled "UNNECESSARY" and has a black circle icon to its left. Arrows point from external labels to specific elements: "TO AUTHOR INFORMATION" points to the "CCC" code; "TO BOOK INFORMATION" points to the "[VVVV]" code; "[BOOKSHELF ENTRY] BUTTON" points to the first "PURCHASE" button; "[PURCHASE] BUTTON" points to the second "PURCHASE" button; "[UN-NECESSARY] BUTTON" points to the "UNNECESSARY" button; and "BOOK ALREADY OWNED (WITHOUT EXPLANATION AND [PURCHASE] BUTTON)" points to the "UNNECESSARY" button.

FIG. 8

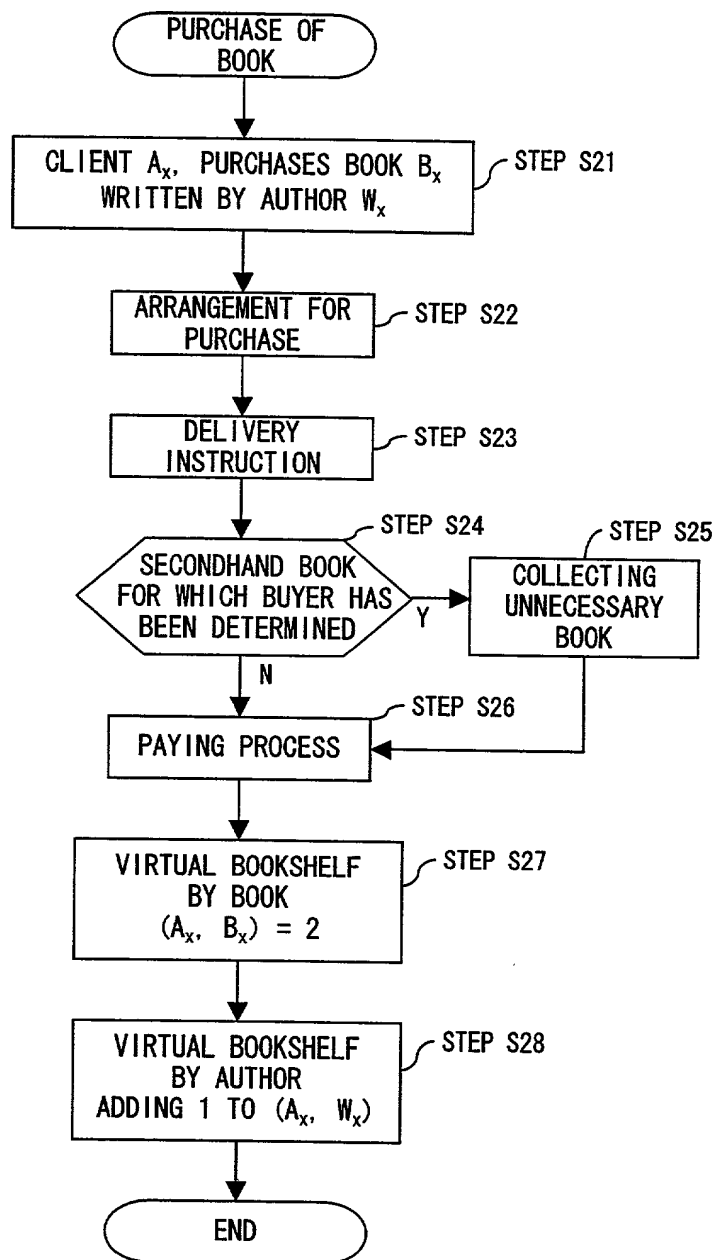


FIG. 9

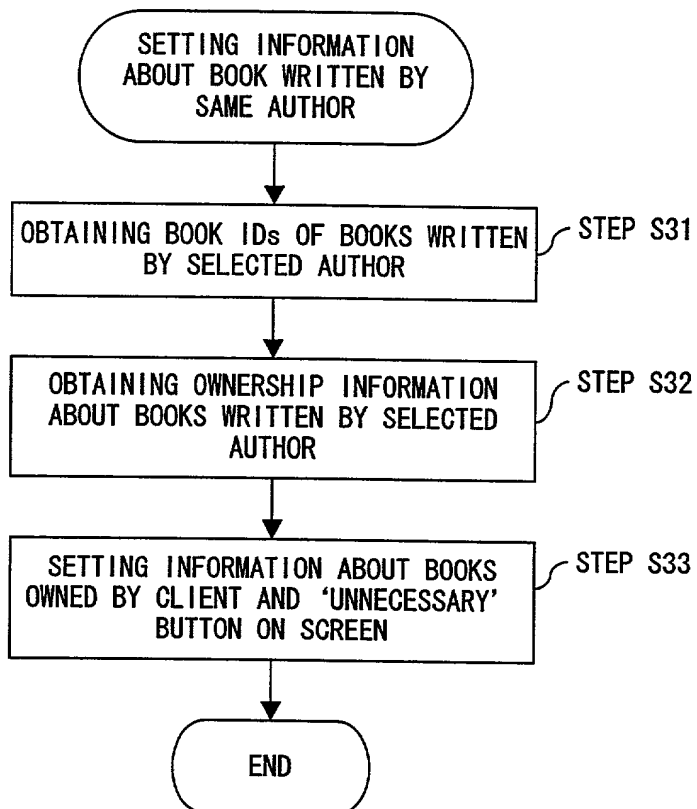
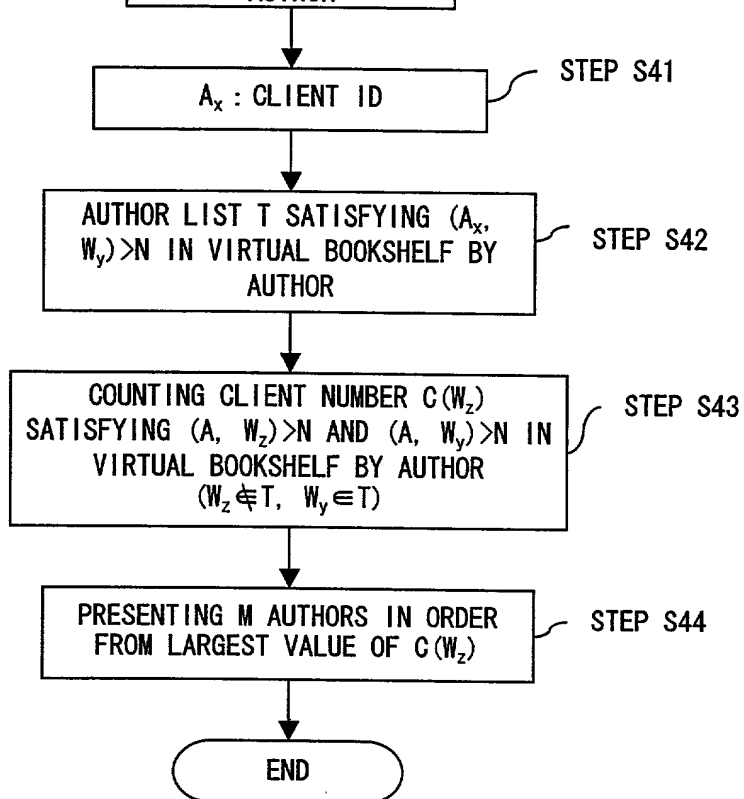


FIG. 10

RECOMMENDING RELEVANT
AUTHOR



The diagram illustrates the layout of the AUTHOR INFORMATION DISPLAY SCREEN, which is divided into several horizontal sections. At the top is a long rectangular box. Below it is the AUTHOR UUU section. The OWNED BOOK section contains two rows of text (aaaaa and bbbbb) followed by two UNNECESSARY buttons. The RECOMMENDED BOOK section contains two rows of text (ccccc and ddddd) followed by two circular icons and two PURCHASE buttons. The HOW ABOUT BOOKS WRITTEN BY THESE AUTHORS? section contains two rows of text (vvvvv and wwwww). The RELEVANT URL section contains a single row of text (xxxxxxxxx). Arrows point from labels to specific elements: [UNNECESSARY] BUTTON points to the top right, [BOOKSHELF ENTRY] BUTTON points to the UNNECESSARY buttons, [PURCHASE] BUTTON points to the PURCHASE buttons, and RELEVANT AUTHOR RECOMMENDATION points to the HOW ABOUT BOOKS WRITTEN BY THESE AUTHORS? section.

Diagram illustrating the layout of the AUTHOR INFORMATION DISPLAY SCREEN, showing various sections and interactive elements:

- Top section: [UNNECESSARY] BUTTON
- Section: AUTHOR UUU
- Section: OWNED BOOK
 - Text: aaaaa, bbbbb
 - Buttons: UNNECESSARY, UNNECESSARY
- Section: RECOMMENDED BOOK
 - Text: cccccc, ddddd
 - Buttons: PURCHASE, PURCHASE
- Section: HOW ABOUT BOOKS WRITTEN BY THESE AUTHORS? (RELEVANT AUTHOR RECOMMENDATION)
- Section: RELEVANT URL

FIG. 12

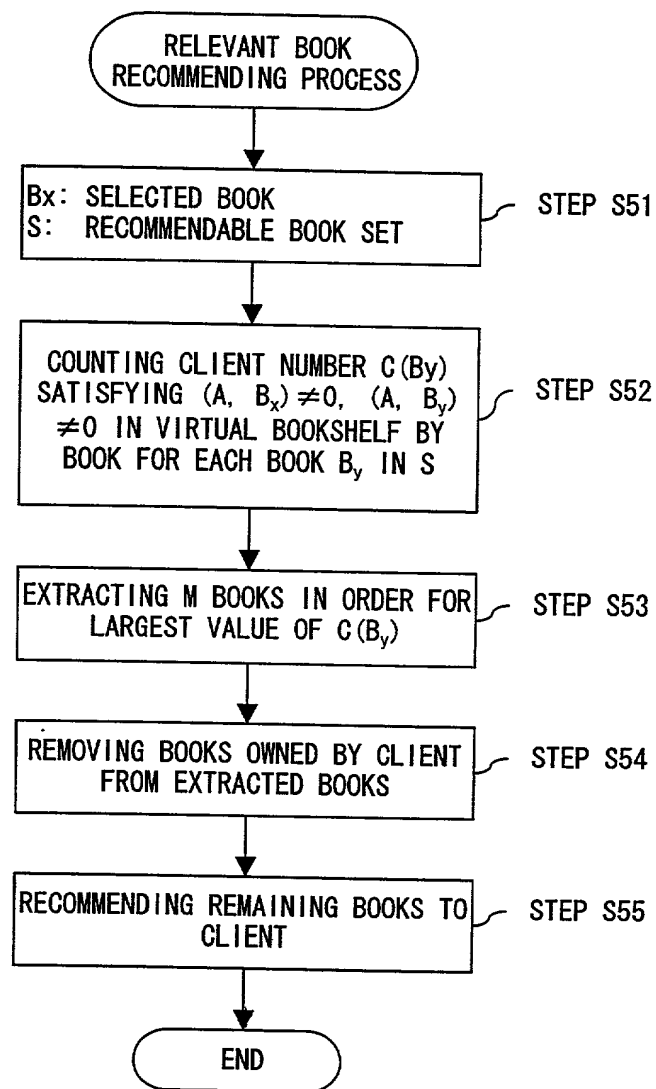


FIG. 13

FIG. 14

<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	
AUTHOR uuu TITLE OF BOOK vvv PUBLISHER xxxx BOOK COMPANY PUBLISHED DATE: 1999. 10 ISBN 4-222-..... EXPLANATION :	ENTRY DATE: 19991203 MEMO <div style="border: 1px solid black; padding: 2px;">.....</div> PUBLIC/NOT PUBLIC <div style="border: 1px solid black; padding: 2px;">UNNECESSARY</div>
OPINION S OF PERSONS OWNING THE BOOK Mr. A : Mr. B :	
OTHER BOOKS FREQUENTLY OWNED BY PERSONS OWING THE BOOK uuuuu [vvvvv2] kkkkk. [bbbbbb]	
RELEVANT URL xxxxxxxxx	

OPINION COMMENT (EDITABLE)

CONDITION FOR PUBLICATION

[UNNECESSARY] BUTTON

FIG. 15

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graph TD
    Start([SELLING PROCESS]) --> S61[DETERMINING BOOK TO BE SOLD AND BUYER  
(BOOK Bx OF CLIENT Ax,  
AUTHOR Wx)]
    S61 --> S62[COLLECTING  
UNNECESSARY BOOK]
    S62 --> S63["(Ax, Bx)=0 OF VIRTUAL  
BOOKSHELF BY BOOK"]
    S63 --> S64["DECREASING (Ax, Wx) OF  
VIRTUAL BOOKSHELF BY  
AUTHOR BY 1"]
    S64 --> S65["REMOVING ENTRY OF (Ax,  
Bx) OF PERSONAL BOOK  
INFORMATION TABLE"]
    S65 --> S66[SELLING SECONDHAND  
BOOK]
    S66 --> S67["PAYING [SALES PRICE -  
COMMISSION] TO CLIENT"]
    S67 --> End([END])

```

FIG. 16

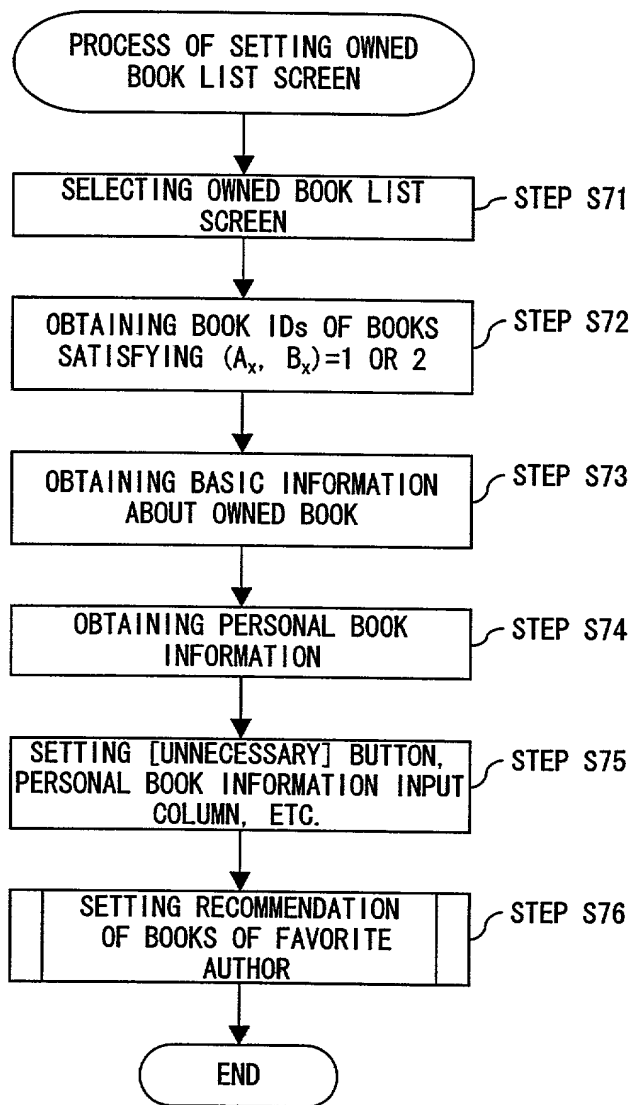


FIG. 17

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graph TD
    Start([PROCESS OF RECOMMENDING BOOKS OF FAVORITE AUTHOR]) --> S81[STEP S81  
Ax: CLIENT ID  
S: RECOMMENDABLE BOOK SET]
    S81 --> S82[STEP S82  
COMPUTING AUTHOR LIST T  
SATISFYING (Ax, Wy) > N IN  
VIRTUAL BOOKSHELF BY  
AUTHOR]
    S82 --> S83[STEP S83  
RECOMMENDING BOOKS WRITTEN  
BY AUTHOR BELONGING TO T  
IN S]
    S83 --> End([END])

```

FIG. 18

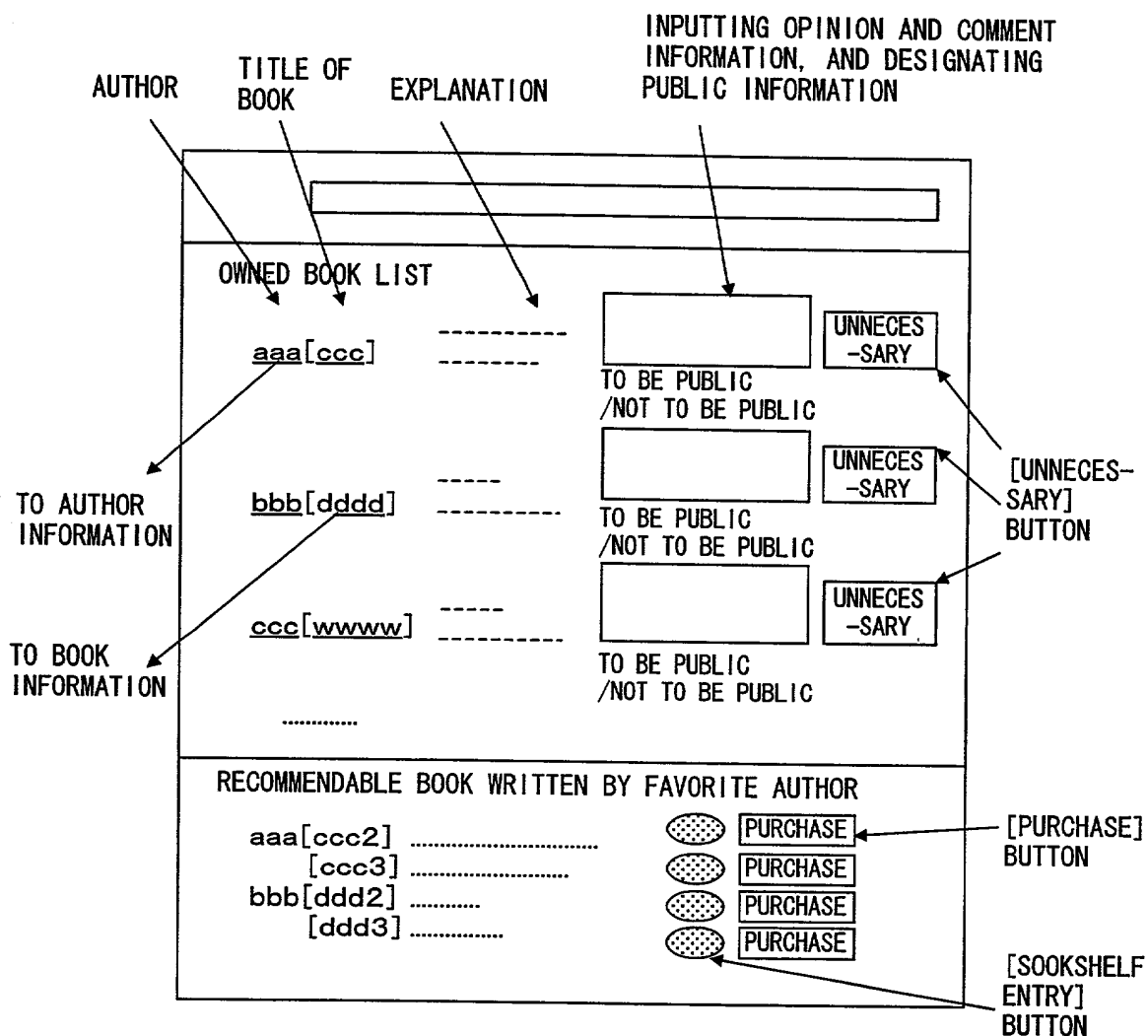


FIG. 19

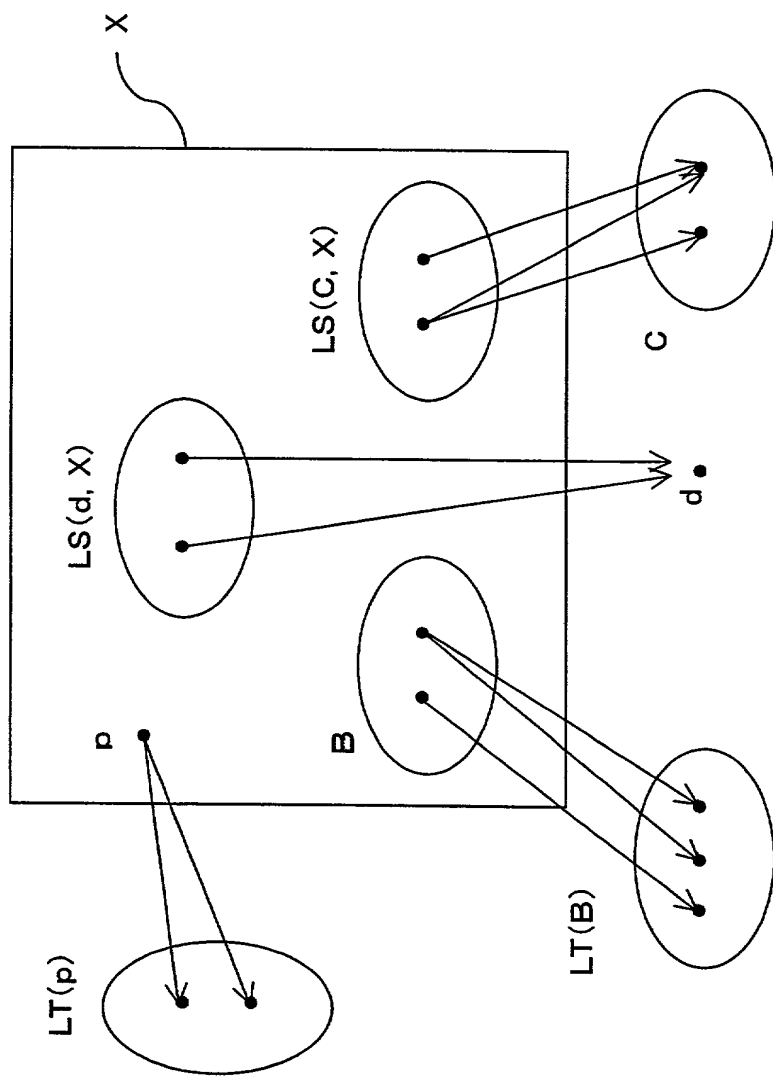


FIG. 20

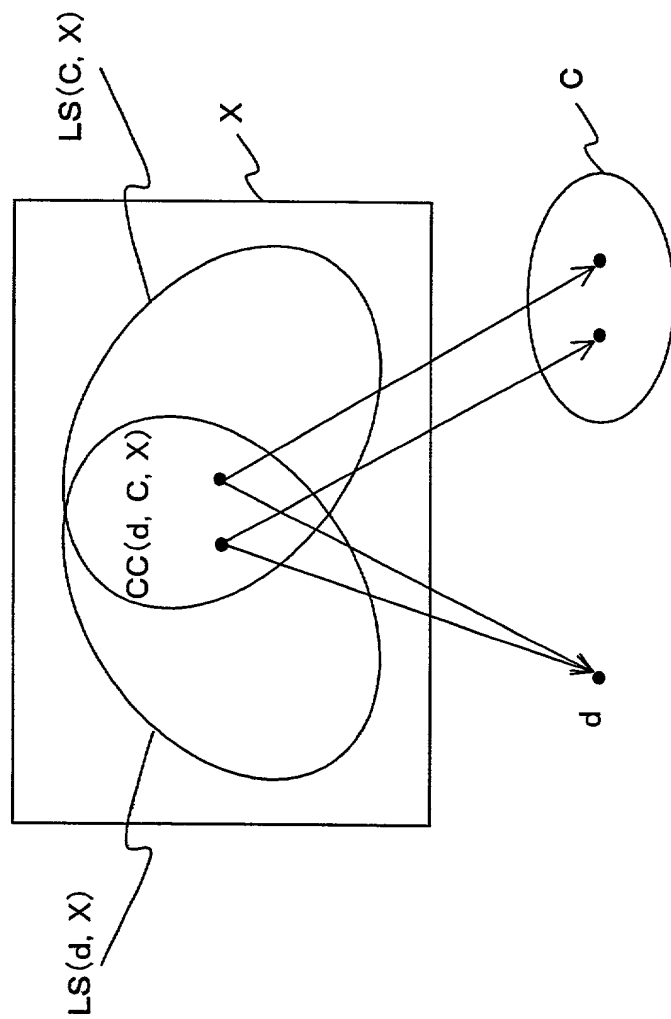


FIG. 21

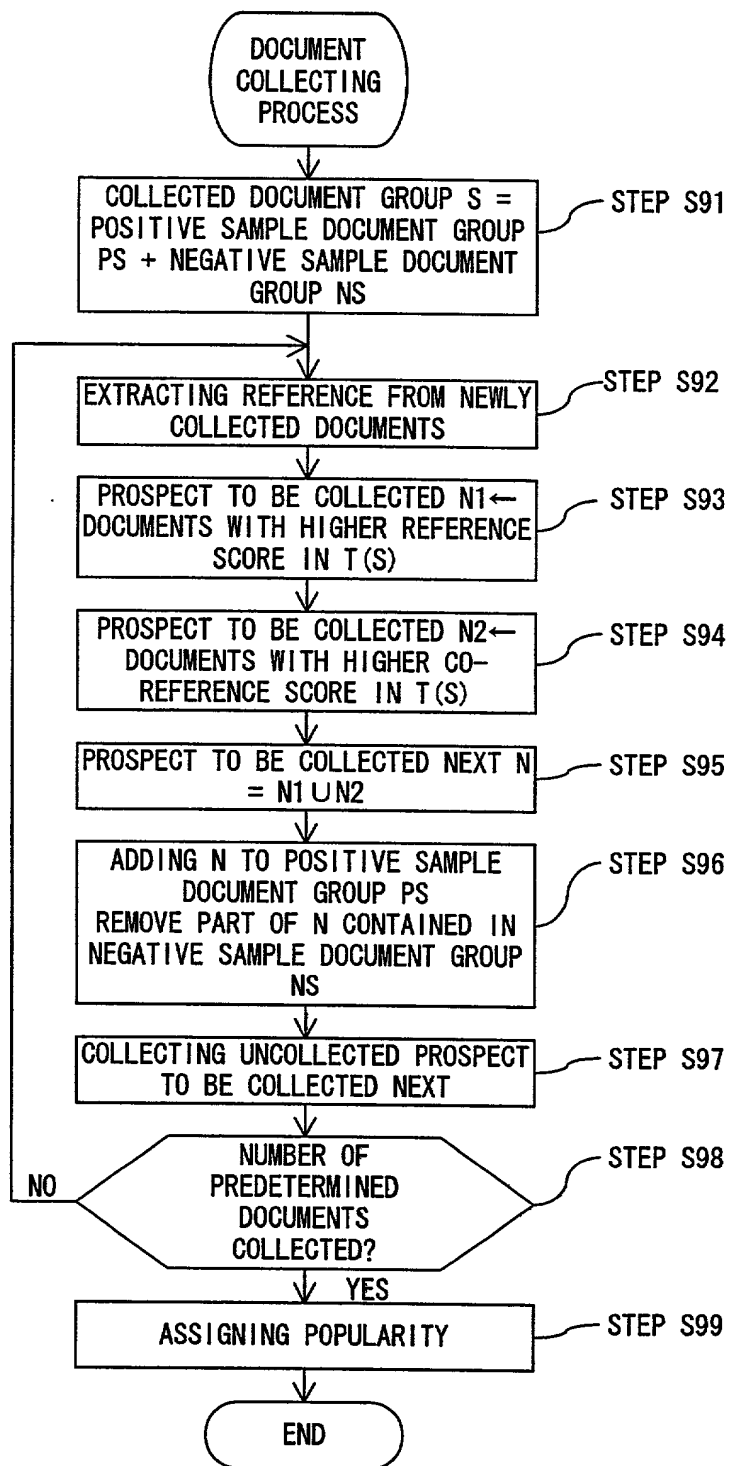


FIG. 22

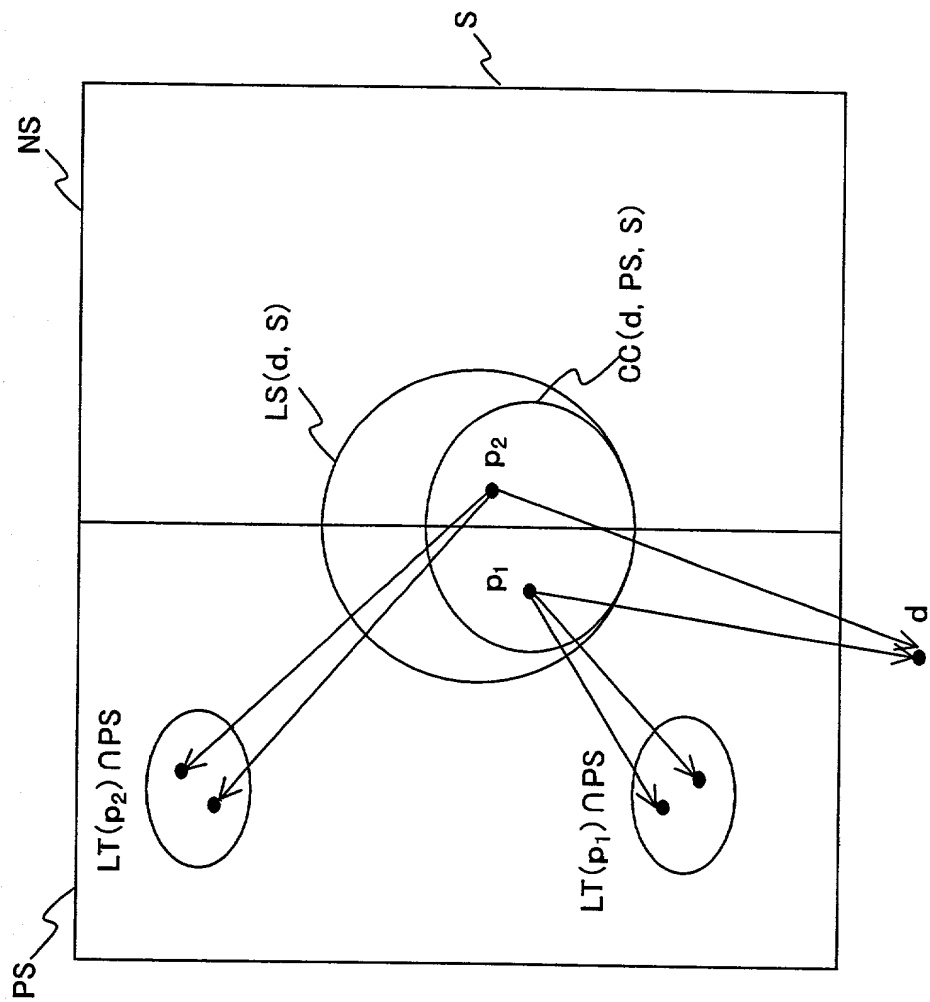


FIG. 24

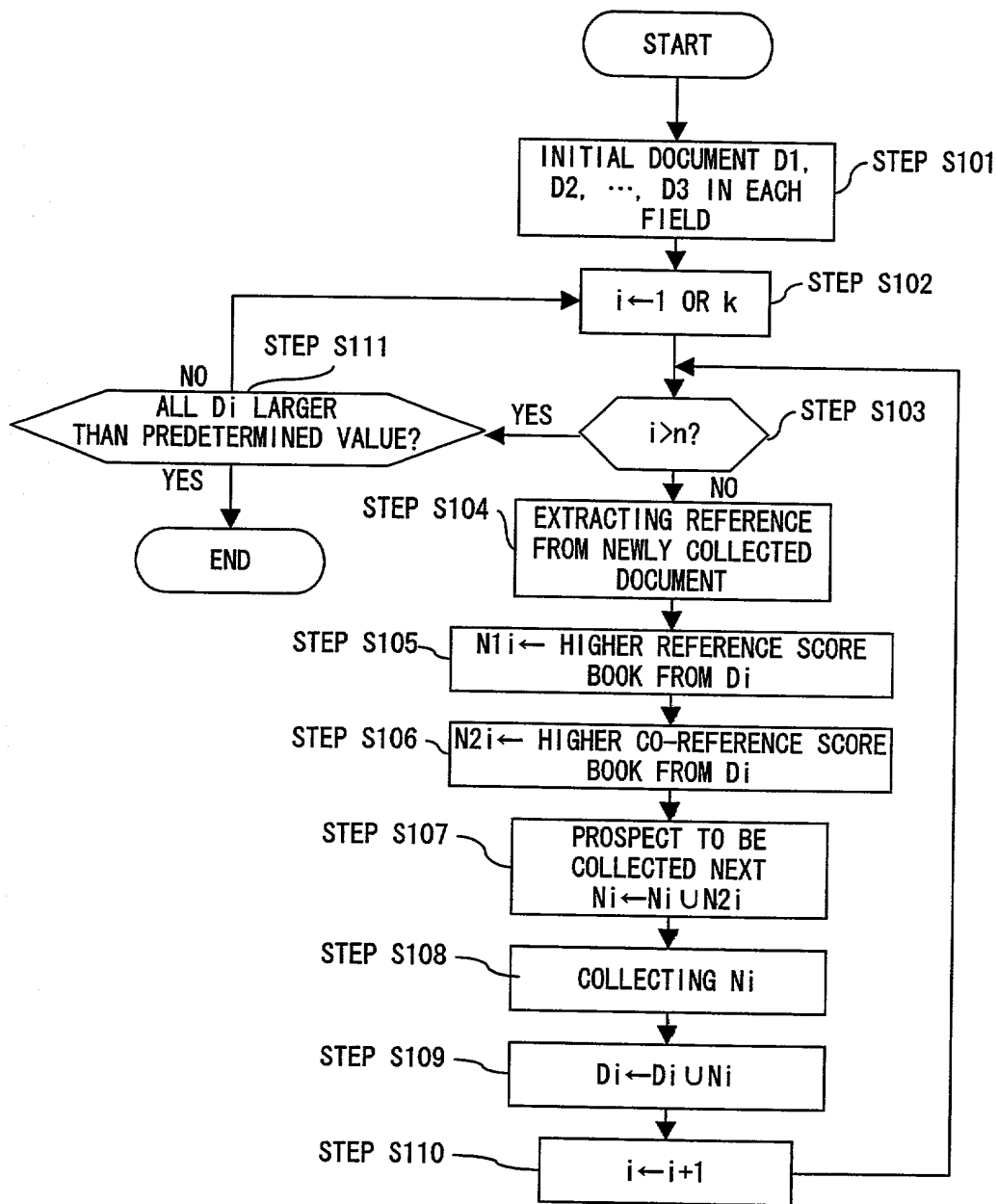


FIG. 25

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graph TD
    Start([SALES AGENT  
PROCESS]) --> S121[GENERATING LIST OF UNNECESSARY BOOKS OF  
CLIENTS AND PRESENTING LIST TO CLIENTS]
    S121 --> S122[RECEIVING PURCHASE REQUEST FROM CLIENTS]
    S122 --> S123[COLLECTING BOOK FOR WHICH BUYER HAS BEEN  
DETERMINED]
    S123 --> S124[COLLECTING SALES PRICE + COMMISSION FROM  
BUYER CLIENT]
    S124 --> S125[DELIVERING BOOK TO BUYER CLIENT]
    S125 --> S126{CONFIRMING BOOK BY  
BUYER CLIENT  
OK?}
    S126 -- YES --> S127[PAYING SALES PRICE  
TO SALES REQUESTING  
CLIENT]
    S126 -- NO --> S129[RETURNING BOOK TO  
SALES REQUESTING  
CLIENT, AND RETURNING  
SALES PRICE +  
COMMISSION TO BUYER  
CLIENT]
    S127 --> S128[UPDATING DATA OF  
VIRTUAL BOOKSHELF]
    S128 --> End([END])
    S129 --> End
  
```

END

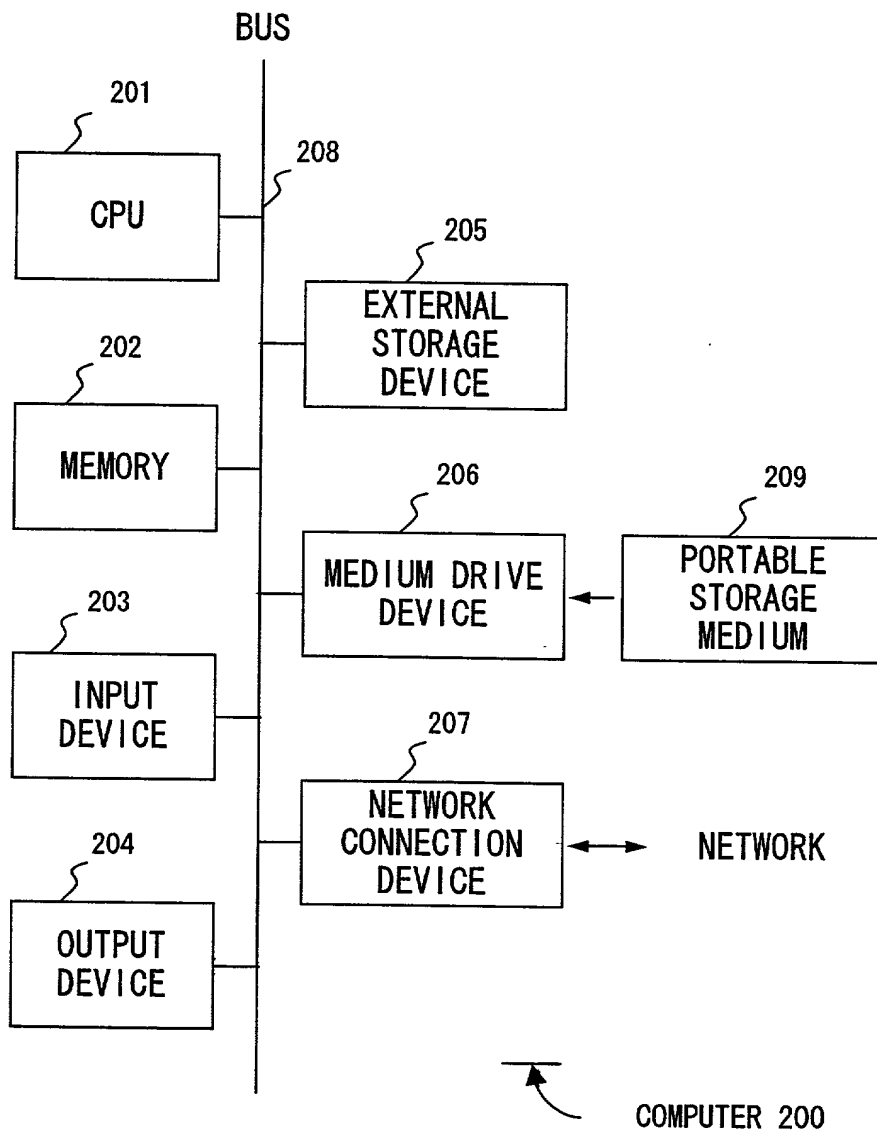


FIG. 27

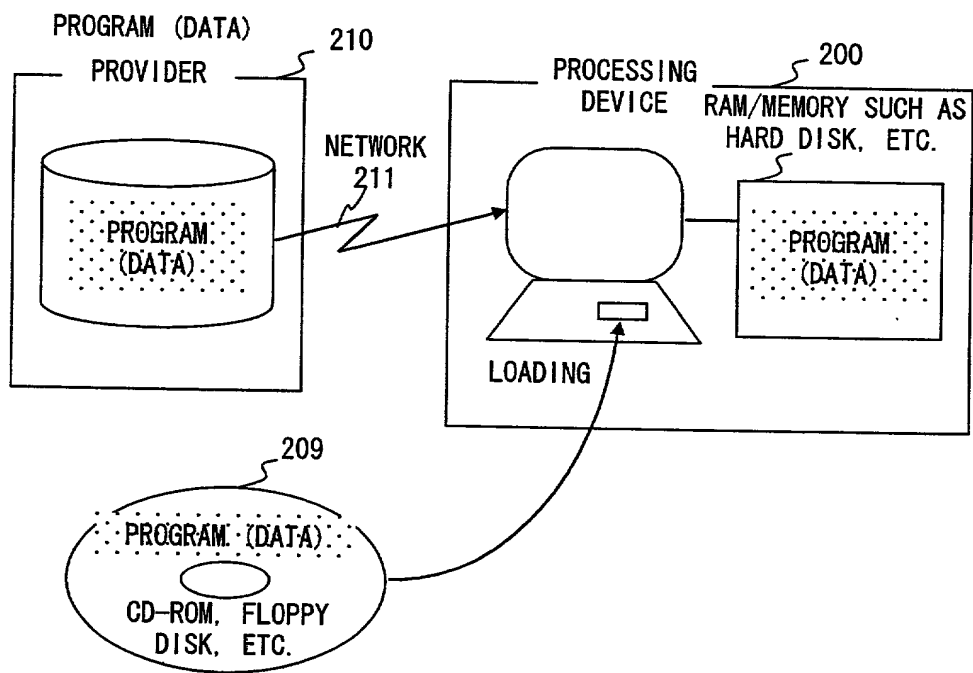


FIG. 28